

SM3H—odd answers for 6.3

1. $\frac{\sqrt{3}}{3}$

3. $\frac{\sqrt{5}}{10}$

5. $\frac{\sqrt{6}}{3}$

7. $\sqrt{2}$

9. $n = 5\sqrt{6}, m = 10\sqrt{3}$

11. $m = 2, n = \frac{2\sqrt{3}}{3}$

13. $a = 6\sqrt{3}, b = 9$

15. $\sin A = \frac{4}{5}$ $\cos A = \frac{3}{5}$

$\tan A = \frac{4}{3}$ $\sec A = \frac{5}{3}$

$\csc A = \frac{5}{4}$ $\cot A = \frac{3}{4}$

17. $\sin A = \frac{\sqrt{5}}{5}$ $\cos A = \frac{2\sqrt{5}}{5}$

$\tan A = \frac{1}{2}$ $\sin B = \frac{2\sqrt{5}}{5}$

$\cos B = \frac{\sqrt{5}}{5}$ $\tan B = 2$

19. $\sin \theta = \frac{9}{23}$ $\cos \theta = \frac{8\sqrt{7}}{23}$

$\tan \theta = \frac{9\sqrt{7}}{56}$ $\sec \theta = \frac{23\sqrt{7}}{56}$

$\cot \theta = \frac{8\sqrt{7}}{9}$

21. $\sqrt{3}$

23. 1

25. ≈ 0.9455

27. ≈ 1.5243

29. ≈ 2.4142

31. $60^\circ, \frac{\pi}{3}$

33. $30^\circ, \frac{\pi}{6}$

35. $\approx 85^\circ$

37. $\approx 68^\circ$

39. $\theta \approx 30^\circ$

41. ≈ 84 feet